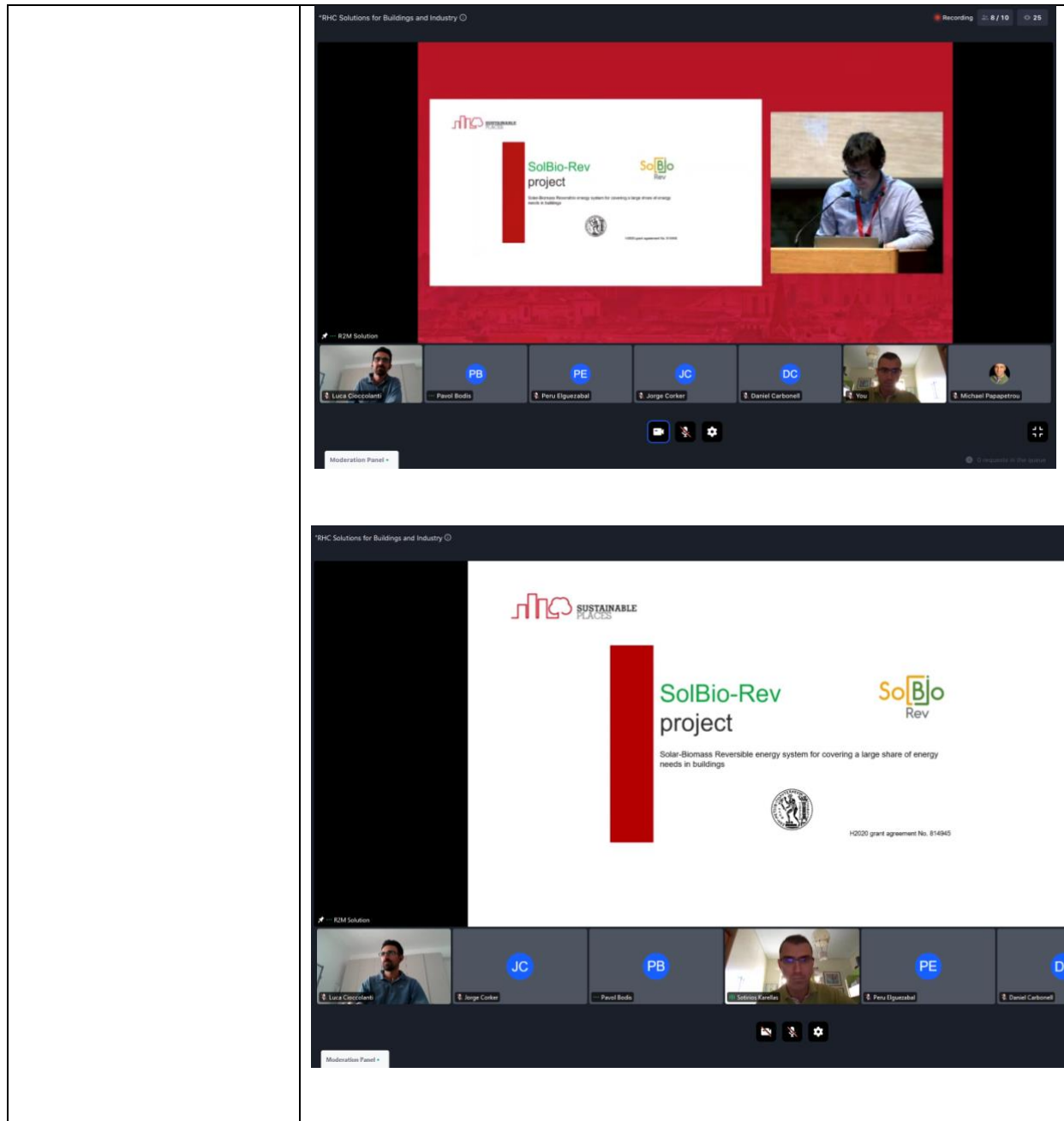


Date	28 September - 1 October 2021
Event name	Sustainable Places 2021
Event description	A hybrid event (physical and virtual) - Sustainable Places is a conference held every year dealing with all aspects of sustainability. The scope of Sustainable Places is captured directly in its name. It involves designing, building and retrofitting the places we live and work in a more sustainable way. Sustainable Places provides a platform for the dissemination of research, the conduct of workshops, EU project clustering and networking between stakeholders. SP2021 gathered more than 150 European projects representing €850 million in R&D and 1500 research performing organizations. Moreover, this year introduced a sharp evolution of the program structure - the inclusion of two plenary morning workshop sessions at national and city level and roundtable discussions that deliberately seek to tie together the contributions of innovators, implementors, decision and policy maker. The workshops gave the floor to scientific projects funded by the European Union to present themselves. The conference was attended by members of the overall energy community mainly from Europe, including distinguished researchers from leading research institutes, as well as young researchers.
Location	Rome, Italy (hybrid event)
SolBio-Rev participants	NTUA, CNR/ITAE
Nature of participation	Digitally via presentation
Number of attendees	300
Feedback & added-value	SolBio-Rev was presented at a workshop entitled “Renewable H&C (Heating and Cooling) Solutions for Buildings and Industry”. Since different projects of the same research field were represented not only in this workshop but also throughout the event, opinions were exchanged and the chance was given to create mutual initiatives and to discuss specific aspects of the SolBio-Rev project. Concluding, the added value from the conference can be summarised as follows: • Dissemination of the project across the scientific community. • Interaction with partners from other European projects of similar subject. • The Q&A session that took place following the projects presentation in each workshop, set possible ways for further exploitation of the SolBio-Rev project.
Picture(s)	









Introduction



Context

Renewables exploitation (solar, biomass) for covering heating, cooling and electricity demand of buildings (residential, commercial) by integrating innovative technologies



Goals

- Development of innovative technology systems
- Integration by means of advanced control
- System validation through pilot testing



Approach

- Lab development and testing of individual subsystems
- Control system realization
- Pilot testing in Greece and Germany
- System roadmap for future implementation



Team

Consortium of 15 partners (8 SMEs, 7 RTD) across Europe (Greece, Italy, Spain, Germany, Austria, Belgium, UK)












Relevant Results

2019	2020-21	2021-...
System potential - DHW 100% met by RES 70-90% RES share for space heating - Up to 100% renewable cooling in Southern Europe - Up to 60% RES share in Northern Europe	Systems development - Subsystems built - Notable emissions reduction and high-temperature biomass boiler operation - Efficient TEGs operation with solar collectors - Stable and efficient R1234ze(E) heat pump operation	Pilots development - Athens pilot building - System design





